# 8X Professional HVAC Controller

**With over 24 years in the industry, Computrols has established a solid reputation as a leader in automation systems, from hardware to software. When it comes to controlling large heating, ventilation, and air-conditioning systems, our Professional line of controllers are the best in the business. For applications requiring eight points or less, our 8X controller is the right choice.**

## Product Highlights

### 4-in-1 Points
Any point can be configured through software to be Analog In, Analog Out, Binary In, or Binary Out – no jumpers.

### Large Screw Terminals
No special screwdrivers – simple secure terminations.

### Status Indicators
Bright on-board LEDs assist in troubleshooting.

### On-Board Web Server
Directly connect a normal web browser for simple management.

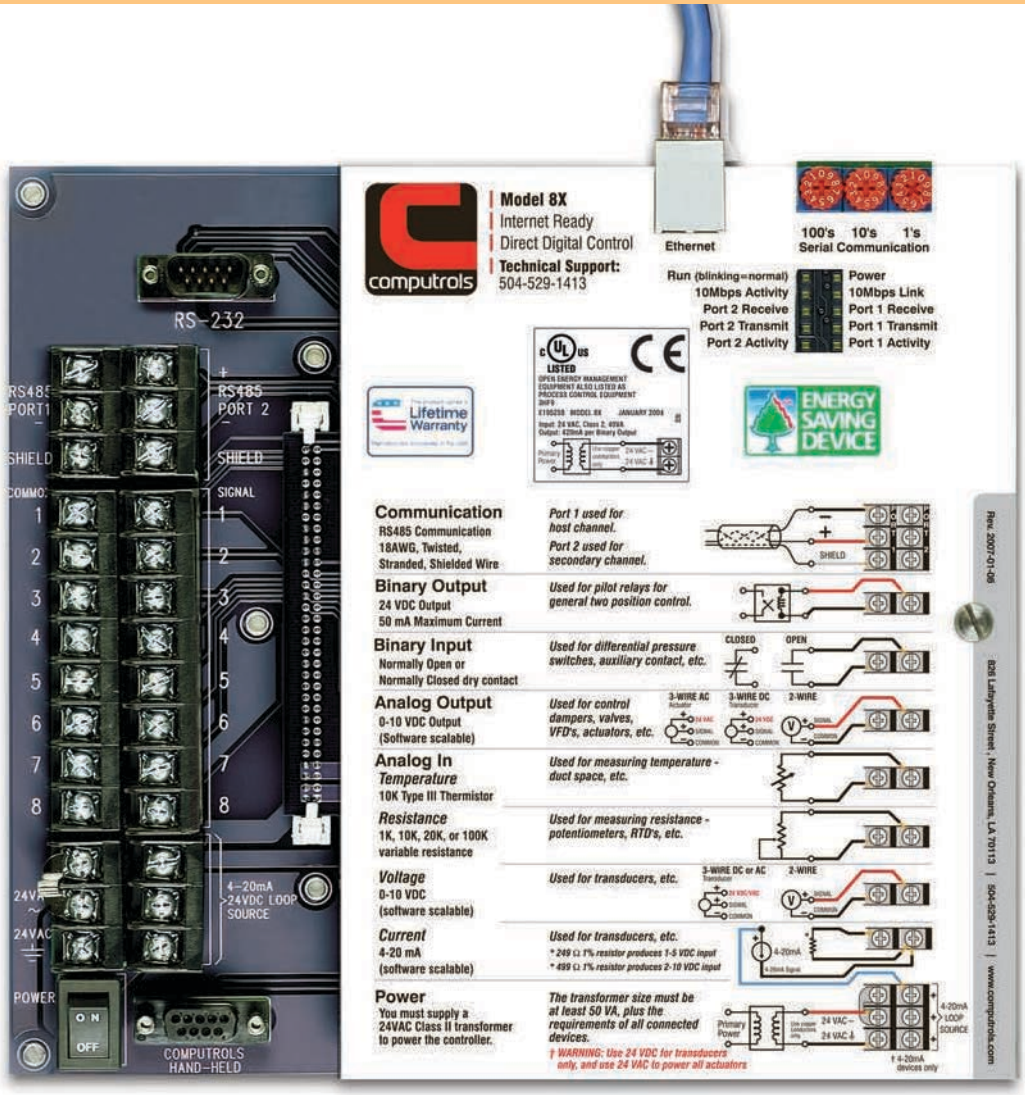
### 10 Mbps Ethernet Port
High speed communications allow the ultimate in flexibility and snappy response.

### Easily Addressable
3 decimal rotary switches (0-9) allow simple addressing – no hex, no binary.

### UL Listed
Mature product which meets industry standard requirements.

### Two-Board Design
All of the electronics are on one easily replaceable brain board for quick repairs.

### Lifetime Warranty
Our quality speaks for itself.



## Specifications

| | |
|---|---|
| Software Compatibility | Works with all versions of CBAS: Professional, Commercial, and Utility. |
| Power Requirements | 50VA @ 24 Vac 50/60 Hz Class 2 transformer |
| Point Configuration | All points software configurable as analog inputs, binary inputs, analog outputs, or binary outputs. |
| Analog Output Specifcations | 0-10 Vdc voltage type |
| Binary Output Specifications | 24 Vdc @ 50 mA |
| Analog Input Specifications | 10K Ohm TYPE III thermistor<br>0-10 Vdc<br>4-20 mA<br>0-32K Ohm resistive (scalable) |
| Binary Input Specifications | Dry contact - switch closure<br>Pulse dry contact 5Hz max repitition rate, 100 msec (min) pulse width |
| Voltage Protection | 250 Vac on each point terminal |
| Electrical Connections | Barrier terminal block 18 -24 AWG<br>24 Vdc loop source terminals (160 mA maximum) |
| Internet Capability | IP addressable on-board web server |
| Communication Ports | 10 Mbps RJ-45 Ethernet TCP/IP, 100 meter maximum distance<br>One RS485 CBAS communication 9600 Baud<br>One RS485 interface port 9600 Baud<br>Local hand held terminal |
| Microprocessor | Intel 386 25 MHz, 3 MB Flash, 1MB SRAM<br>2K NVRAM<br>Real time clock with 10 year data retention |
| Dimensions | 6.5" W x 8.375" L x 1.25" H |
| Mounting | Mount in NEMA rated enclosure |
| Shipping Weight | 5 lbs. |
| Environmental | 32 - 158 Deg. F, 10 - 90 %RH non-condensing |
| Agency Compliance | E195258 UL 916 (PAZX) Energy Management Equipment<br>Canadian Standard C22.2 No. 205-M1983<br>E231285 UL 61010C-1 (QUYZ) Electrical Process Control Equipment<br>Canadian Standard C22.2 No. 1010<br>CE IEC 61010-1 (1990) with Amendments 1 (1992) and 2 (1995) |

## Parts and Accessories

| Part Number | Description |
|---|---|
| 8X | 8 binary or analog points. Controller only - enclosure and transformer required. |
| 8X-NEMA1 | 8X controller mounted in NEMA 1 indoor enclosure with transformer. |
| 8X-NEMA4X | 8X controller mounted in NEMA 4X outdoor enclosure with transformer. |
| HHT | Hand Held Terminal |
| ST-D3-XH | 10K type duct temperature sensor |
| ST-S3E | 10K type space temperature sensor |
| ST-S3E-XA | 10K type space temperature sensor with setpoint adjustment. |
| MN-S3-700 | LCD room temperature sensor (200 feet maximum distance from controller).<br>*Note: requires stat interface board STAT-IFC.* |
| MN-S3HT | Space temperature and humidity sensor.<br>*Note: requires stat interface board STAT-IFC.* |
| STAT-IFC | Stat interface board |
| T-PB202-0 | 4.0 amp power supply with 120 Vac outlet. |
| VMD2B-F24D | VMD series 24Vdc relay switch with override switch. |
| DCM24-44, DM24-53, DM24-280 | Direct coupled actuators. Part numbers indicate torque ratings. |
| VP1 | VTP voltage pressure transducer ( 3-15 PSI ) |
| PV3 | Differential pressure transmitter (Specify 0-1", 0-2" or 0-5" W.C.) |
| H-922 | Analog current sensor |
| H8035/8036 Series | 3 phase networked (MODBUS RTU) KW/KWH power meter |

Professional

MANUFACTURED EXCLUSIVELY IN THE USA



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